

IN THE CLAIMS

Please amend Claim 1 as shown in marked-up form as follows:

1. (Amended) A side-emitting illumination device for uniformly distributing light comprising:

an LED light source,
a light-transmitting rod which permits total internal reflection, and

outcoupling material affixed to an outer surface of the rod, wherein the angular width of the outcoupling material affixed to an outer surface of the rod controls the angular distribution of light leaving the side of the rod.

2. (Original) The side-emitting illumination device of claim 1, wherein the light source further comprises a plurality of LEDs.

3. (Original) The side-emitting illumination device of claim 2, wherein the plurality of LEDs includes at least a red, a green, and a blue LED which, when mixed, generate white light.

4. (Original) The side-emitting illumination device of claim 3, wherein the array of red, green, and blue LEDs can be mixed to generate a variety of white light chromaticity.

5. (Original) The side-emitting illumination device of claim 2, wherein the array of red, green, and blue LEDs can be mixed to generate dynamic color effects.
6. (Original) The side-emitting illumination device of claim 2, wherein the rod is a flexible rod.
7. (Original) The side-emitting illumination device of claim 2, wherein the rod is a rigid rod.
8. (Original) The side-emitting illumination device of claim 2, wherein the outcoupling material is paint.
9. (Original) The side-emitting illumination device of claim 8, wherein the paint is white paint.
10. (Original) The side-emitting illumination device of claim 9, wherein the white paint is distributed in such a way as to control the angular distribution of light leaving the rod.
11. (Original) The side-emitting illumination device of claim 9, wherein the white paint is distributed in such a way as to ensure uniform light distribution along the length of the rod.

12. (Original) The side-emitting illumination device of claim 2, wherein the rod is an elliptical rod in cross-section.
13. (Original) The side-emitting illumination device of claim 2, wherein the rod is a square rod in cross-section.
14. (Original) The side-emitting illumination device of claim 2, wherein the rod is a combination of straight and curved edges in cross-section.
15. (Original) The side-emitting illumination device of claim 14, wherein the combination of straight and curved edges vary in configuration along the length of the rod.
16. (Original) The side-emitting illumination device of claim 2, wherein the outcoupling material comprises a combination of white paint and fine dots with varying packing density.
17. (Original) The side-emitting illumination device of claim 2, wherein the luminary further comprises a mirror at an end of the rod away from the light source.

18. (Original) The side-emitting illumination device of claim 17, wherein the mirror reflects light that travels the entire length of the rod.

19. (Previously Added) A method of controlling the angular distribution of light leaving the side of a side-emitting illumination device for uniformly distributing light comprising:

providing a light-transmitting rod which permits total internal reflection with an outcoupling material along its side;

controlling the width of the outcoupling material to achieve a desired angular distribution of light leaving the side of the rod; and

illuminating the light-transmitting rod with an LED light source.